RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/591.726
Source:	IFWP.
Date Processed by STIC:	9/13/06
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ENTERED



IFWP

RAW SEQUENCE LISTING DATE: 09/13/2006
PATENT APPLICATION: US/10/591,726 TIME: 11:07:38

Input Set : A:\21085064U1.TXT

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      6 <120> TITLE OF INVENTION: BRHF1 AS A CANCER DIAGNOSTIC MARKER
      9 <130> FILE REFERENCE: 21085.0064P1
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/591,726
C--> 11 <141> CURRENT FILING DATE: 2006-09-05
     11 <150> PRIOR APPLICATION NUMBER: 60/550,224
     12 <151> PRIOR FILING DATE: 2004-03-04
     14 <160> NUMBER OF SEQ ID NOS: 21
     16 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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     21 <213> ORGANISM: Artificial Sequence
     23 <220> FEATURE:
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     30 Ala Ala Val Leu Val Ser Thr Thr Ile Pro Ile Ser Ser Val Trp Gly
    31
    32 Pro Leu Gln Ile Leu Gly Gln Lys Arg Gly Gln Lys Met Glu Gln Ala
     34 Asn His Pro Val Gly Leu Asp Ile Ser Val Val Tyr Lys Asp Thr Leu
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     36 Lys Lys Ile Val Gln Gln Glu Thr Ser Cys Pro Phe Thr His Val His
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                                                75
     38 Tyr Ala Glu Gly Ile Thr Gly Arg His Thr Ala Pro Glu Asp Glu Gly
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    40 Ser Leu Ala Gln Lys Pro Pro Ile Arg
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     46 <212> TYPE: PRT
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    54 Met Asn Ile Asp Ala Lys Ile Leu Asn Lys Ile Leu Ala Asn Gln Ile
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    57
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Input Set : A:\21085064U1.TXT

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60 Gln His Ile Asn Arg Thr Lys Asp Lys Asn His Met Ile Ile Ser Val
61
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62 Asp Ala Glu Lys Ala Phe Asp Lys Val Gln Gln His Phe Met Leu Lys
64 Thr Leu Asn Lys Leu Gly Ile Asp Gly Thr Tyr Leu Lys Ile Ile Arg
                                       90
66 Ala Ile Tyr Asp Lys Pro Thr Ala Asn Ile Ile Leu Asn Gly Leu Lys
67
               100
                                   105
68 Leu Glu Ala Phe Pro Leu Lys Thr Gly Thr Arg Gln Gly Cys Pro Leu
           115
                               120
70 Ser Leu Leu Phe Asn Ile Val Leu Glu Val Leu Ala Arq Ala Ile
                           135
       130
72 Arg Gln Glu Lys Glu Ile Asn Cys Ile Gln Leu Gly Lys Glu Glu Val
                       150
74 Lys Leu Pro Leu Phe Ala Asp Asp Met Ile Val Tyr Leu Glu Asn Pro
75
                   165
                                       170
76 Val Val Ser Ala Pro Asn Leu Leu Lys Leu Ile Ser Asn Phe Ser Lys
                                   185
78 Val Ser Gly Tyr Lys Ile Asn Val Gln Lys Ser Gln Ala Phe Leu Tyr
                              200
           195
80 Thr Asn Asn Arg Gln Thr Glu Ser Gln Ile Met Ser Glu Leu Pro Phe
       210
                           215
                                               220
82 Thr Ile Ala Ser Lys Arg Ile Lys Tyr Leu Gly Ile Gln Leu Thr Arg
                       230
                                           235
84 Asp Val Lys Asp Leu Phe Lys Glu Asn Tyr Lys Pro Leu Leu Asn Glu
                   245
                                       250
86 Ile Lys Glu Asp Thr Asn Lys Cys Lys Asn Ile Pro Cys Ser
87
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96 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
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101 gtgagcacaa ctattccgat cagcagtgtc tggggaccat tgcagattct tgggcaaaag 120
102 agaggacaga aaatggagca ggccaatcac ccagtggggc ttgatatcag tgtggtttac 180
103 aaggacacct taaaaaagat tgtccaacaa gaaacaagct gccccttcac ccatgtccac 240
104 tatgctgagg gaatcactgg aaggcacact gccccagagg atgaaggttc tctggcccag 300
105 aagcccccaa tcaga
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Input Set : A:\21085064U1.TXT

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118 aaaaagctta tccaccatga tcaagtgggc ttcatccctg ggatgcaagg ctggttcaac 120
119 atacacaaat caataaatgt aatccagcat ataaacagaa ccaaagacaa aaaccacatg 180
120 attatctcag tagatgcaga aaaggccttt gacaaagttc aacaacactt catgctaaaa 240
121 acteteaata aattaggtat tgatgggaeg tateteaaaa taataagage tatetatgae 300
122 aaacccacag ccaatatcat actgaatggg ctaaaactgg aagcattccc tttgaaaact 360
123 ggcacaagac agggatgccc tctctcactt ctcctattca acatagtgtt ggaagttctg 420
124 gccagggcaa tcaggcagga gaaggaaata aattgtattc aattaggaaa agaggaagtt 480
125 aaattgcccc tgtttgcaga tgacatgatt gtatatctgg aaaaccccgt cgtctcagcc 540
126 ccaaatctcc ttaagctgat aagcaacttc agcaaagtct caggatacaa aatcaacgtg 600
127 caaaaatcac aaqcattctt atacaccaat aacaqacaaa caqaqaqcca aatcatqaqt 660
128 gaactcccat tcacaattgc ttcaaagaga ataaaatacc taggaatcca acttacaagg 720
129 gatgtgaagg acctetteaa ggagaactae aaaceaetge teaacgaaat aaaagaggat 780
130 acaaacaaat qcaaqaacat tccatqctca
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135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
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144 aacagaaatt ataacaaact atctctcaga ccacagtgca atcaaactag aactcaggat
                                                                         180
145 taagaatete acteaaagee geteaactae atggaaactg aacaacetge teetgaatga
                                                                         240
146 ctactgggta cataacgaaa tgaaggcaga aataaagatg ttctttgaaa ccaacgagaa
                                                                         300
                                                                         360
147 caaagacacc acataccaga atctctggga cgcattcaaa gcagtgtgta gagggaaatt
148 tatagcacta aatgcctacc agagaaagca ggaaagatcc aaaattgaca ccctaacatc
                                                                         420
149 acaattaaaa gaactagaaa agcaagagca aacacattca aaagctagca gaaggcaaga
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150 aataactaaa atcagagcag aactgaagga aatagagaca caaaaaaccc ttcaaaaaaat
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                                                                         600
151 caatgaatcc aggagctggt tttttgaaag gatcaacaaa attgatagac cgctagcaag
152 actaataaaq aaaaaaaqaq aqaaqaatca aataqacaca ataaaaaaatq ataaaqqqqa
                                                                         660
153 tatcaccacc gatcccacag aaatacaaac taccatcaga gaatactaca aacacctcta
                                                                         720
                                                                         780
154 cgcaaataaa ctagaaaatc tggaagaaat ggatacattc ctcgacacat acactctccc
155 aagactaaac caggaagaag ttgaatctct gaatcgacca ataacaggct ctgaaattgt
                                                                         840
156 ggcaataatc aatagtttac caaccaaaaa gagtccagga ccagatggat tcacagccga
                                                                         900
157 attctaccag aggtacaagg aggaactggt accattcctt ctgaaactat tccaatcaat
                                                                         960
158 agaaaaagag ggaatcctcc ctaactcatt ttatgagacc agcatcattc tgataccaaa
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159 gccgggcaga gacacaacca aaaaaqagaa ttttagacca atatccttga tgaacattga
                                                                        1080
160 tgcaaaaatc ctcaataaaa tactggcaaa ccgaatccag cagcacatca aaaagcttat
                                                                        1140
161 ccaccatgat caagtgggct tcatccctgg gatgcaaggc tggttcaata tacgcaaatc
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162 aataaatgta atccagcata taaacagagc caaagacaaa aaccacatga ttatctcaat
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166 <211> LENGTH: 10
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Input Set : A:\21085064U1.TXT

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186 <400> SEQUENCE: 7
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189 <210> SEQ ID NO: 8
190 <211> LENGTH: 375
191 <212> TYPE: PRT
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
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198 <400> SEQUENCE: 8
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201 Ala Ala Val Leu Val Ser Thr Thr Ile Pro Ile Ser Ser Val Trp Gly
203 Pro Leu Gln Ile Leu Gly Gln Lys Arg Gly Gln Lys Met Glu Gln Ala
                                40
205 Asn His Pro Val Gly Leu Asp Ile Ser Val Val Tyr Lys Asp Thr Leu
207 Lys Lys Ile Val Gln Gln Glu Thr Ser Cys Pro Phe Thr His Val His
                        70
                                             75
209 Tyr Ala Glu Gly Ile Thr Gly Arg His Thr Ala Pro Glu Asp Glu Gly
                                        90
211 Ser Leu Ala Gln Lys Pro Pro Ile Arg Met Asn Ile Asp Ala Lys Ile
212
                100
                                    105
213 Leu Asn Lys Ile Leu Ala Asn Gln Ile Gln His Ile Lys Lys Leu
214
            115
                                120
                                                     125
215 Ile His His Asp Gln Val Gly Phe Ile Pro Gly Met Gln Gly Trp Phe
                            135
217 Asn Ile His Lys Ser Ile Asn Val Ile Gln His Ile Asn Arg Thr Lys
218 145
                        150
219 Asp Lys Asn His Met Ile Ile Ser Val Asp Ala Glu Lys Ala Phe Asp
220
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221 Lys Val Gln Gln His Phe Met Leu Lys Thr Leu Asn Lys Leu Gly Ile
222
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223 Asp Gly Thr Tyr Leu Lys Ile Ile Arg Ala Ile Tyr Asp Lys Pro Thr
```

Input Set : A:\21085064U1.TXT

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224		105					200					225				
205		195	7 1 -	.	*	~1	200	T	.	01		205	5	-	.	
	Ala Asn		шe	ьeu	Asn	-	Leu	гàг	Leu	GIU		Pne	Pro	Leu	ьуs	
226	210		_			215	_	_	_	_	220	_		_		
	Thr Gly	Thr	Arg	GIn		Cys	Pro	Leu	Ser		Leu	Leu	Phe	Asn		
	225	_	_		230					235					240	
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231	Cys Ile	Gln	Leu	Gly	Lys	Glu	Glu	Val	Lys	Leu	Pro	Leu	Phe	Ala	Asp	
232			260					265					270			
233	Asp Met	Ile	Val	Tyr	Leu	Glu	Asn	Pro	Val	Val	Ser	Ala	Pro	Asn	Leu	
234		275					280					285				
235	Leu Lys	Leu	Ile	Ser	Asn	Phe	Ser	Lys	Val	Ser	Gly	Tyr	Lys	Ile	Asn	
236	290					295					300					
237	Val Gln	Lys	Ser	Gln	Ala	Phe	Leu	Tyr	Thr	Asn	Asn	Arg	Gln	Thr	Glu	
238	305				310					315					320	
239	Ser Gln	Ile	Met	Ser	Glu	Leu	Pro	Phe	Thr	Ile	Ala	Ser	Lys	Arg	Ile	
240				325					330				-	335		
241	Lys Tyr	Leu	Gly	Ile	Gln	Leu	Thr	Arq	Asp	Val	Lys	Asp	Leu	Phe	Lys	
242			340					345	•		•	-	350		-	
243	Glu Asn	Tyr	Lys	Pro	Leu	Leu	Asn	Glu	Ile	Lys	Glu	Asp	Thr	Asn	Lys	
244		355	•				360			•		365			• •	
245	Cys Lys	Asn	Ile	Pro	Cys	Ser										
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		-	-	gccta	-	-			-				_	-		60 120
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262 263	agaggac aaggaca tatgctg	caa o aga o cct o agg o	ctati aaato taaaa gaato	geeta cega ggago aaaga caeto	at ca ca go at to gg aa	agcag gccaa gtcca aggca	gtgtc atcac acaa acact	tgg cca gaa gcc	gggad agtgg aacaa ccag	ccat gggc agct gagg	tgca ttga gcca atga	igatt itato cctto iaggt	cag f	tgggd tgtgg ccatg tctgg	caaaag gtttac gtccac gcccag	120 180 240 300
262 263 264	agaggaca aaggaca tatgctg aagcccc	caa daga daga daga daga daga daga daga d	ctati aaato taaaa gaato tcaga	geeta geage aaaga aacte aatga	at ca ca go at to gg aa aa ca	agcag gccaa gtcca aggca atcga	gtgtc atcac acaa acact atgca	tgg cca gaa gca aaa	gggad agtgg accad cccag accag	gggc ggct gagg ctca	tgca ttga gcca atga ataa	igatt itato cctto iaggt iaata	ct deag de cac d	tgggd tgtgg ccatg tctgg ggcaa	caaaag gtttac gtccac gcccag aaccaa	120 180 240 300 360
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262 263 264 265 266 267 268	agaggaca aaggaca tatgctg aagcccc atccagc caaggct gacaaaa cacttca	caa aga agg g caa d agg g caa d agc aggt d acc a	ctatt aaatg caaa ccaga acato ccaao acato	geeta ceega gaaga caete aatga caaaa catac gatta	at ca ca gg at to gg aa aa ca aa go ca ca ca ca tat ct	agcag gccaa gtcca gtcca aggca atcga cttat aaatc aataa	gtgto atcac acact atgca ccac caata agat	tgg cat aaa cat aat gca	gggad agtgg aacaa cccag aatcc gatd gataa agaaa aattg	ccat gggc igct gagg ctca caag itcc iagg	tgca ttga gccc atga ataa tggc agca cctt ggac	agatt atato cetto aaggt aaata getto atata egtat	cat dated and a cat dated actions a cat dated actions act dated actions a cat dated ac	tgggo tgtgg ccatg tctgg ggcaa ggcaa cagtg cagaa caaaa	caaaag gtttac gtccac gcccag aaccaa gggatg accaaa caacaa	120 180 240 300 360 420 480 540
262 263 264 265 266 267 268 269	agaggaca aaggaca tatgctg aagcccc atccagc caaggct gacaaaa cacttca agagcta	caa aga agg gcaa agg agg acc agg to test acc at test acc at test acc acc acc acc acc acc acc acc acc ac	ctati aaato gaato ccaga acato ccaao acato acato	geeta ceega ggage aaaga caete caaaa gatta caaac	at ca gat to at to at ca at ca at ca ca ca ca ca ca ca ca ca ca ca ca ca ca ca ca ca ca c	agcag gccas gtcca aggca atcga ttat aaatc ccagt aataa	gtgto atcac acac atgca cccac caata agat acata	tgg cca gaa gaa gaa cat aat ggt aggt	gggad agtgg accas accas agtas agaas attg	ccat gggc agct gagg ctca caag atcc aagg gatg	tgca ttga gccc atga ataa tggc agca cctt ggac atgg	agatt atato cetto aaggt aaata getto atata egtat	tet frag frage fra	tgggd tgtgg ccatg tctgg ggcaa ccctg cagaa agtto caaaa actgg	caaaag gtttac gtccac gcccag aaccaa gggatg accaaa caacaa ataata gaagca	120 180 240 300 360 420 480 540 600 660
262 263 264 265 266 267 268 269 270	agaggaca aaggaca tatgctg aagcccc atccagc caaggct gacaaaa cacttca agagcta ttccctt	caa a aga a agg agg agg agg agg agg agg	ctatt aaatg caaaa ccaga ccaac ccaac acatc caaaaa aacatg aaaac	geeta ceega ggago aaaga caeto caaaa caaac caaac	at ca gg aa gg aa ga ca ca ca ca ca ca ca ca ca ca ca	agcas gccaa gtcca aggca atcga tcagt acagca acagca agaca	gtgtcactacactactactactactactactactactactact	tgg cca gaa cat aat gca ggt aat tgg tgg	gggad agtgg accas accas accas agata agaaa accata accata	ecat gggc ggct gagg etca eaag atcc aagg gatg etga	tgca ttga gccc atga ataa tggca cctt ggac atgg cact	igatt itato cetto iaata getto itata itgao egtat geta iteto	tet tag tag action to the tag action to tag	tgggd tgtgg ccatg tctgg ggcaa ccctg agat agttc aatga attca	caaaag gtttac gtccac gcccag aaccaa gggatg accaaa caacaa ataata gaagca	120 180 240 300 360 420 480 540 600 660 720
262 263 264 265 266 267 268 269 270 271	agaggaca aaggaca tatgctg aagcccc atccaggct gacaaaa cacttca agagcta ttccctt gtgttgg	caa a aga a agg ag	ctatt aaatg caaaa acatg caaaa acatg caaaaaaatgac acacct	geeta geago aaaga caeto aatga caaaa gatta gatta gago ggea	at ca gga t to at to aa ca ca ca ca ca ca ca ca ca ac ca ac ca ac ca ac ca	agcag gccaa gtcca aggca atcga cttat acagt acagca agaca gcaat	gtgto atcac atcac atgca ccac caata agat actta aggga ccaggga	tgg cca gca aaa cat aat gca ggt at ggt	gggad agtgg accas accas agtas agaas atts catas ggags	ggc ggct gagg tca gatg tcc aagg gatg ctga ctct	tgca ttga gcc atga ataa tgga acctt ggac atgg cact aaat	igatt itato itato itato itato itgio igoto itoto itaaat	tet i	tgggd tgtgg ccatg tctgg ggcaa ccctg cagaa agtto caaaa actgg attoa tatto	caaaag gtttac gtccac gcccag aaccaa gggatg accaaa caacaa ataata gaagca aacata	120 180 240 300 360 420 480 540 600 660 720 780
262 263 264 265 266 267 268 269 270 271 272	agaggaca aaggaca aagcccc atccagc caaggct gacaaaa cacttca agagcta ttccctt gtgttgg	caa a aga a agg a agc a agc a agc a tgc a tgc a agg agg agg agg agg agg agg agg agg	ctatt aaatg caaaa gaatc ccaac acatc acatg caaaa atgac acatg caaact caaact caaact caaact caaact	geeta geago aaaga cacto aatga catao gatta gatta caaao ggea ggea	at ca gga aa gg aa aa ga aa ca aa ca aa gg gg aa ca aa gg gg aa ca aa gg gg aa ca aa ga aa ca aa ga aa ca aa aa ca aa aa ca aa ca aa ca aa ca aa ca aa aa ca aa aa ca aa aa aa ca aa aa aa ca aa aa aa aa aa aa aa aa aa aa aa aa aa	agcac gccaa gccaa gcca atcga ccagt acagca agaca gcaat	gtgto atcaca acacta atgca caata agata acaat aggga ccagg	tgg cca cat aat gca agt act ggt acc	gggadagggadaggadaggadaggadaggadaggadag	ggc ggct gagg tca gatg tcc lagg gatg ctct lagg	tgca ttga gcco atga ataa tgga acctt ggao atga cact aaat tgat	agatt atato aggt aaata getto atata egtat getat egtat egtat	cat data data data data data data data d	tggggggggggggggggggggggggggggggggggggg	caaaag gtttac gtccac gcccag aaccaa gggatg accaaa taacaa ataata gaagca aacata	120 180 240 300 360 420 480 540 600 660 720 780 840
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VERIFICATION SUMMARY

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DATE: 09/13/2006

PATENT APPLICATION: US/10/591,726

TIME: 11:07:39

Input Set : A:\21085064U1.TXT

Output Set: N:\CRF4\09132006\J591726.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date